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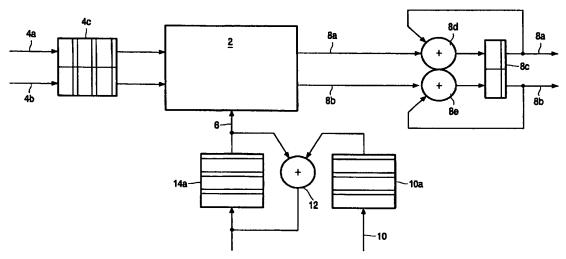
as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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[Continued on next page]

(54) Title: SUPERPOSITION OF WAVES USING THE CORDIC ALGORITHM



(57) Abstract: The invention relates to a method for creating a waveform composed by superposition of N waves using a Coordinate Rotation Digital Computer (CORDIC). To provide for generation of composite waveforms said CORDIC calculates within N calculating steps discrete values of said N waves, and said output of said discrete values from said CORDIC is cumulated with previous outputs of discrete values to form a composed discrete value of said waveform.

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 before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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| Category ° | Citation of document, with indication, where appropriate, of the rel | evant passages | Relevant to claim No. |
| Х | US 4 910 698 A (MCCARTNEY ANDREW) 20 March 1990 (1990-03-20) abstract; figures 1-7 | | 6,7,10 |
| | column 1, line 9 -column 2, line column 6, line 25 -column 7, line | 32 9 | |
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ational application No. PCT/IB 03/04483

| Box I Ob | servations where certain claims were found unsearchable (Continuation of item 1 of first sheet) |
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| This Interna | tional Search Report has not been established in respect of certain claims under Article 1.7(2)(a) for the following reasons: |
| | alms Nos.: 1-5,8,9 cause they relate to subject matter not required to be searched by this Authority, namely: ee FURTHER INFORMATION sheet PCT/ISA/210 |
| bed bed | ulms Nos.: cause they relate to parts of the International Application that do not comply with the prescribed requirements to such extent that no meaningful International Search can be carried out, specifically: |
| | tims Nos.: cause they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). |
| Box II Ob | servations where unity of invention is lacking (Continuation of item 2 of first sheet) |
| This Internat | tional Searching Authority found multiple inventions in this international application, as follows: |
| 1. As | all required additional search fees were timely paid by the applicant, this international Search Report covers all archable claims. |
| 2. As of 8 | all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment any additional fee. |
| 3. As | only some of the required additional search fees were timely paid by the applicant, this International Search Report rers only those claims for which fees were paid, specifically claims Nos.: |
| 4. No res | required additional search fees were timely paid by the applicant. Consequently, this International Search Report is tricted to the invention first mentioned in the claims; it is covered by claims Nos.: |
| Remark on | Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees. |

International Application No. PCT/ IB 03/04483

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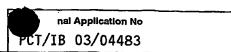
Continuation of Box I.1

Claims Nos.: 1-5,8,9

Claims 1-5 relate to an adaptation of the CORDIC algorithm, developed by Jack E. Volder in 1959. The adaptation is directed to a superposition of N waves and queuing and cumulating of values of N waves. All of these features represent a mathematical theory for which no international search report will be established, according to Article 17(2)(a)(i) and Rule 39.1 (i) PCT.

A software implementing mathematical method steps, as defined in claims 8 and 9, falls under the category of a computer program, listed in Rule 39.1 (vi) PCT.





| Patent document cited in search report | | Publication date | | Patent family member(s) | Publication date |
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| US 4910698 | Α | 20-03-1990 | NONE | | ······································ |